

# “Dolphin / Barracuda” Manual Light Weight Wheelchairs

## User's manual



*Manufacturer:*

**MOBILEX A/S**

Grønlandsvej 5  
DK-8660 Skanderborg  
Denmark

[www.mobilex.dk](http://www.mobilex.dk)

Type the serial number of your wheelchair for future reference: .....

## 1. General information



Dear customer,

This user manual contains a description of the medical device and important guidances to ensure a correct and safe usage of the product. It is important prior to use to read this manual carefully. It is especially important to read the safety requirements and follow these.

We continuously develop our products and we reserve the right without further notice to change the specifications and functions of products described in below user's manual.

Observe below symbols attached to each chapter's name. They will help you to define which parts of this user's manual are dedicated to you.



**Pre-sale information: dealers, therapists, physicians.**



**Service information: technicians, dealers, therapists, services**



**End user information: users, attendants, therapists**



### Intended use of the device

The Dolphin/Barracuda manual light weight wheelchair is medical device indicated for use by those persons with limited motion abilities who are unable to stand, walk and/or seat independently. It dedicated for transportation and moving of such people in seating position. Users can move with the wheelchair independently or with a help of attendant, The chair can be used indoor and as well outdoor on different surfaces (asphalt, concrete, stone, gravel) in good weather conditions. Any other use is prohibited.

The wheelchair has passed all necessary tests and it is in conformity with following European Standards: PN-EN 12182:2005; PN-EN 12183:2010; PN-ISO 7176-1,3,5,7,8,15,19; PN-EN 1021-1:2007

It also fulfils all CE requirements imposed by the EEC 93/42 Medical Devices Directive. Upon a correct usage of the wheelchair we foresee its failure-free work for years.

The sound recording of this user's manual for blind and short sighted persons is available at manufacturer's office.

In case questions please take contact to your dealer or directly to Mobilex A/S.

### Mobilex A/S

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## 2. Safety warnings & requirements



- Make sure that this user manual is read by all persons using the device.
- Manufacturer doesn't take any responsibility for damages and/or injuries, caused by the fact that the user manual has not been followed.
- Use the product only in flawless condition.
- If defects or errors are detected you must immediately contact the dealer.
- Follow the instructions and warnings on all product labels.
- Use the product only for the described purpose intended by manufacturer.
- Avoid making constructive changes on the device, unless you have the manufacturer's written acceptance for such modifications.
- The device must only be used on a stable surfaces.
- All wheels should be in contact with the floor at ALL TIMES during use. This will ensure the device is properly balanced and should avoid incidents.
- The device must not be loaded with more than 120 kg.

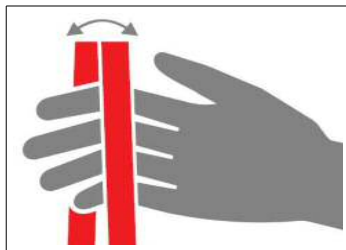
- Avoid burnings during usage of the chair in the direct sunlight. Different elements of the product might become hot.
- It is not recommended to use the wheelchair on sand, in mud or in extreme weather conditions.
- The attendant of a wheelchair user should be fully healthy and capable person.
- Do not remove by your self any parts or accessories of the wheelchair. It may influence product's stability and rigidity.
- Do not place device near to the sources of heat or fire (fireplaces, ovens, heaters, stoves). It is not recommended to smoke cigarettes when seated on the device. The wheelchair is not fire resistant.



### Follow below warnings for safe usage of the device:

The BARRACUDA wheelchair is not designed as a seating option for a user in moving vehicles. It is forbidden to SIT on the BARRACUDA wheelchair in moving vehicles. The BARRACUDA wheelchair should be safely stowed and secured for the time of it's transportation. The user should be safely transferred and seated in safe seating system of the vehicle. There is a great risk of serious incident, injuries and property damage if above rules are not followed.

The DOLPHIN wheelchair is allowed to be used as a vehicle seating option in moving vehicles (like f.e. buses, trains, metro etc.) when properly and securely immobilized. For detailed information please refer to the chapter "Transport recommendations" (page 13).



The design of the wheelchair because of it's functions include many moving elements, slots, holes and gaps between device's parts. There is a risk of body part trapping during folding, unfolding and adjusting different elements of the wheelchair. It specially concerns fingers or hands. It is also possible to have a finger cut by moving parts of the device. Always be careful when you adjust or set up a chair to not get your body parts squeezed and injured.



## 3. Product Description

The "Dolphin/Barracuda" wheelchair comes with all the typical features like: parking brakes, detachable footrests, elevable armrests etc. . The device is made from powder coated aluminium tubing, it is warm to the touch and corrosion resistant. No tools are required for standard assembly.

### Wheelchair provides:

A comfortable transportation and storage thanks to it's light aluminium, cross frame structure and wheels with a quick-release axle, easiness of manoeuvring, easy transfer to - and out of the wheelchair, the durability and the solidity of the structure. It also offers multiple adjustments. Some are available as standard feature and some are options.

Devices are supplied in cartons, detached in to few elements for easier transportation:

The standard contents are:

- 1 Main cross frame with upholstery, armrests & front castors;
- 2 height adjustable push handles for assistant;
- 2 detachable footrests with footplates;
- 2 detachable main 24" pneumatic wheels with pushrims
- 2 quick release axles for main wheels

### Product label



MOBILEX A/S  
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Tel: +45 87 93 22 20  
www.mobilex-care.com

Dolphin / Barracuda  
wheelchair



Max. 120 kg

This is a sample of the product label only (not original)

The product label is located in the bottom of the frame



Produced

Serial no.

## Standard elements:



1. Push handle -height-adjustable, enabling the attendant to manoeuvre the wheelchair.
2. Backrest - made of smooth incombustible material, enabling also easy upholstery cleaning. On Barracuda it is angle adjustable to 3 different positions.
3. Armrest - adjustable in height and elevable. It is used as a comfortable support of forearms. It also facilitates getting in and out of the wheelchair.
4. Main wheel - Majority of the user's weight rests on these 24 inches pneumatic wheels. Wheels can be easily take off, which facilitates the transportation of the wheelchair.
5. Push rim - Thanks to push rims fastened to main wheels self propelled drive of the wheelchair is possible.

**WARNING! Do not put fingers between the wheel and the handrim. It threatens the injury**

**of the palm.**

6. Front wheel - 8 inches turning wheels are installed on rotating forks, which makes manoeuvring of the wheelchair possible.
7. Cross -thanks to it the wheelchair can be easily folded for transportation and storage.
8. Footplate - User's feet rest on it. It is possible to lift up the footrest, which can ease getting in and out of the wheelchair.
9. Footrest - with fixed angle in standard equipment and elevable footrests as option (standard on Barracuda). The removable footrest is a safe and comfortable support for legs. The footrest is adjustable in length.
10. Seat - Made in similar way to the backrest.
11. Brake - Pushing of brake lever towards front causes it's activation and protects the wheelchair against unwanted movement or rolling down the slope.
12. Seat cushion (not shown) - adjustable (by cutting) in depth.

**WARNING! Always activate both brakes, if you do not ride the wheelchair.**

## Options and accessories

Depending on version and order specification, the chair may be equipped in multiple optional equipment: elevable footrests (standard on Barracuda), reclining back (only on Barracuda), anti-tipping supports, headrest, table, spoke protectors etc.

## Assembly description

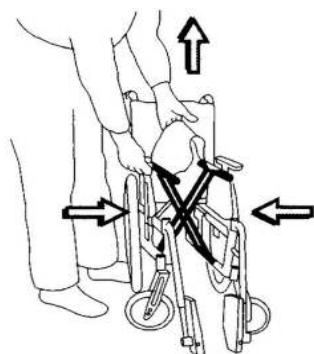
With looking on the picture above the device should be assembled in quite instinctive way. But we recommend wheelchair to be assembled and set up by professionals before it is delivered to end user. We recommend to follow below steps:

- In first place take all chair's elements out of the box and check with the list from above if nothing is missing. If you'd discover at that stage that some part is missing or damaged, do not continue assembly process. Contact your supplier of the product right away.
- Put the push handles in the tube endings on the backrest of the chair. Use attached fixing knobs or levers to tie push handles in position.
- Insert quick release axles in to the holes at the middle of main wheels. To be able to do that you must press the button at the end of each axle. When axles are inserted the button should be located on the same side of the wheel as handrim.
- Attach wheels to the main frame by pressing the buttons on quick release axles and inserting the axles in to wheel bushings. Then release the button. The quick release will lock in place automatically. Try to pull the wheel out of it's socket to check if it is correctly attached. To detach the main wheels proceed the same way by pressing the button in the middle of the wheel and pull the wheel out of it's place.

- Put the footrests on the frame by sliding their ends in to holes at the top front corners of the frame. The footrests must be faced outwards at this point. When footrests ends are inserted in to dedicated holes, turn them towards front of the chair. They should lock in place automatically.
- Put the cushion on the seat upholstery. The new cushion might require cutting to adjust it to the seat depth. This adjustment is described further in this manual.
- Before first usage it might be necessary to make following adjustments: seat depth adjustment (if standard setting doesn't fit user), main wheels position adjustment (if necessary), front wheel position adjustment (if main wheel height was changed), break position adjustment (if rear wheel position or seat depth was changed), legrest length adjustment, armrest height adjustment, back angle adjustment.

All above adjustments are described further in this user's manual.

#### How to unfold and fold the wheelchair

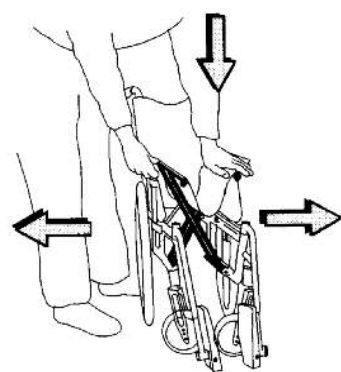


##### To fold:

Take of the cushion. Lift the footplates up. Lift the upholstery of the seat (in accordance with the instructions on the drawing).

##### To unfold:

Place both hands on the seat upholstery tubes press them down (in accordance with the instructions on the drawing). One should be careful and not put the hand between tubes and the wheelchair frame during unfolding it.

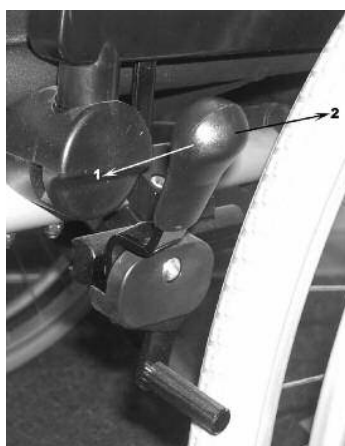


## 4. Functions & adjustments description

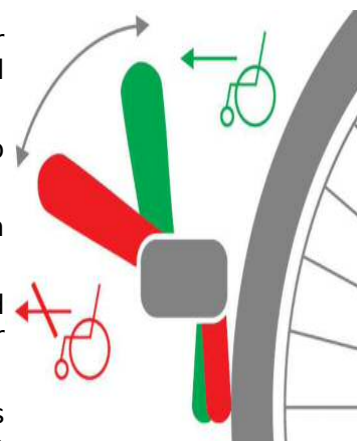


### Standard functions and adjustments:

#### Brakes



- To apply the brake push the lever forward (1). To release the brake pull the lever toward the wheel (2).
- The brake is activated when set to position, as drawn in red.
- The brake is inactive when set to position as drawn in green.
- The brakes should always be activated (in red position) when wheelchair is stopped
- The brakes should be always deactivated (in green position) before user will start to ride with the wheelchair.



#### Footrests

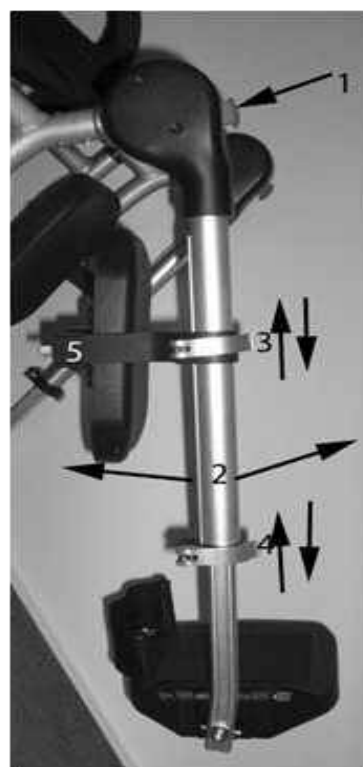
##### Fixed Footrests (standard)

Standard rigid footrests can be disassembled or pushed away on side. To incline and disassemble the footrest it has to be unlocked by pulling out the safety-lock (1) then turn the footrest outside or inside and pull it upwards (2). The footrest assembling should be conducted in reverse order by inserting it in base of frame (3) and turning it inside (4). The safety-lock will self lock automatically.

**WARNING! You should never climb or stand on the footrests, it may cause falling over with the wheelchair. You should never lift the wheelchair by grabbing the footrests.**



*Rigid Footrests*



*Elevable footrests*

Footrests are height adjustable. To adjust their length one should release lock lever (5), choose the height of the footrest and lock the lever. During using the wheelchair outdoor, the footrests must be placed on height of minimum 4-5cm from the floor.

#### Elevable footrests (as standard only on Barracuda)

They offer wider range of adjustments of which the most important is ability to choose footrest angle. Attaching and disassembling of elevable footrests works the same way as on standard ones. Assembly and disassembly of elevable footrests is the same as on standard ones.

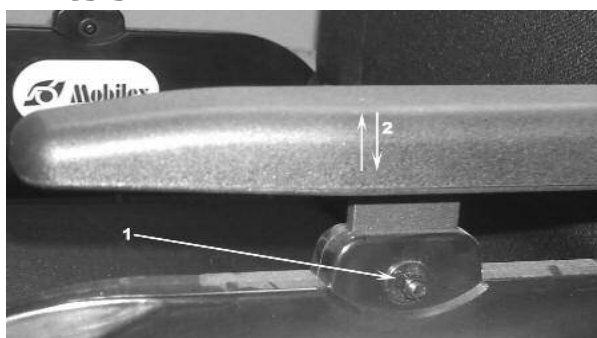
*To adjust the legrest angle:* press and hold button (1) with your finger, adjust the legrest angle by moving it up or down (2) with your other hand, release button (1) to lock legrest in desired position.

*To adjust calfrest height:* release the lock lever (3) and move calfrest up or down to desired position. Relock the lever (3) to secure the calfrest in desired position.

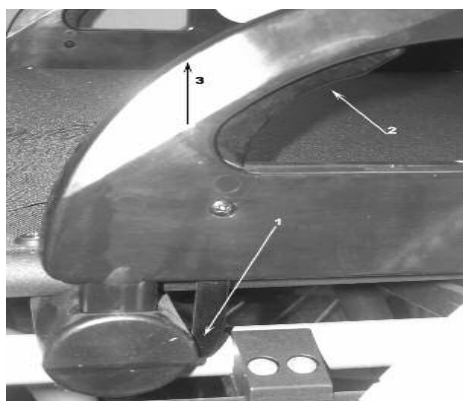
*To adjust the foot plate height:* release the lock lever (4) and move footplate up or down to desired position. Relock the lever (4) to secure the footplate in desired position.

*To fold the calfplate away:* press the silver button (5) located behind the calfrest, Fold the calfrest to the back, To open the calfplate back simply push it forward until the "click" sound is heard.

#### **Armrests**



The armrests are height-adjustable. To change the position one should press the button (1), choose the height of the armrest (2) and then tight the screw.

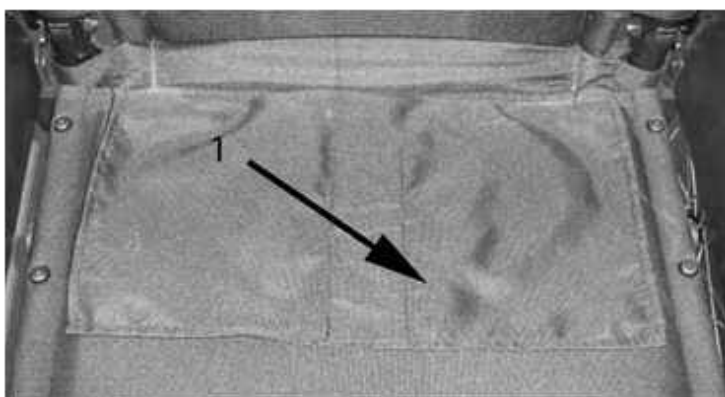


The armrests can be also inclined upwards, which ease getting in and out of the chair (Fig.4). To unblock the safety-lock (1) one should press the lever (2) placed on the side of the armrest and then lift the side panel up (3).

**After lowering the armrest and placing it on the guide bar, the safety-lock (1) self locks automatically.**

**How to lift the wheelchair up**

### Pelvis stabilization



Adjust the position of overlapping part of fabric (1) for optimal stabilization of the pelvis. Then secure the overlap in place with velcro straps located under it.

### Backrest with angle adjustment (only on Barracuda)



#### To adjust the backrest angle

- Press and hold the red button (1)
- Use the second hand to adjust the backrest to desired angle (2)
- Release button (1) to secure backrest in desired position
- Repeat above steps on the other side of the backrest

**WARNING! Always ensure that the angle of both back tubes is adjusted to the same positions.**

### 24" pneumatic rear wheels

The wheels on "Dolphin" chair can additionally be easily removed and fitted in by pressing the quick-release button placed in the centre of the wheel (1).

24" pneumatic tires are standard on the device. It is recommended to use wheelchair with above size and type of wheels, but it is



also possible to use puncture proof tires.

The wheelchair is delivered with the standard aluminium push rims. The material and the distance between the push rim and the wheel can influence on the grip strength of the wheelchair's user.

One should be careful and not allow the fingers to get between spokes during driving in narrow passages. To avoid such risk it is recommended to use a spoke protection (accessory).

**WARNING! One should regularly control the pressure in tyres, which ought to be in range of 2 - 2,2 bar depending on the weight of the user. The heavier user - the higher pressure.**

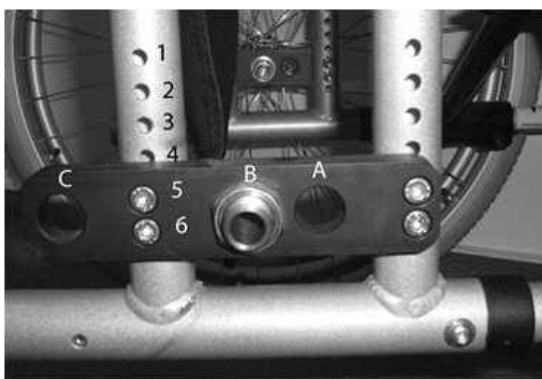


## Advanced settings and adjustments

**WARNING! We recommend all advanced adjustments to be done by the qualified staff only. An inappropriate adjustment can cause deterioration of the safety usage of the wheelchair and decrease its durability.**

### Main wheels position adjustment

The wheel balance on "Dolphin" chair can be additionally adjusted by moving the wheel axle. In such case it is necessary to readjust also the position of the front, rotating castors.



#### To adjust the rear wheel position:

It is possible to adjust rear wheels up, down, forth and back depending on wheel size and personal preferences of a user. The height of wheel assembly allows to modify the height of the wheelchair's seat.

The horizontal adjustment (front/back) allows to influence the stability and maneuverability of the chair. The most common and neutral position is "B". If it is necessary to increase the maneuverability the wheel can be moved to position "A". It is easier to maneuver with wheelchair that's wheels are set to position "A", but the rearwards stability is much lower. If the wheels are adjusted to "A" position, the

chair should always be equipped with activated anti-tip supports to protect wheelchair against tipping over. Persons with amputated leg(s) should never use chair with wheels in position "A". The risk of tipping over is too high.

For users after leg(s) amputation position "C" was designed. It offer much more stability than other positions, but even though users like that should always use chair equipped with activated anti-tip supports to protect wheelchair against tipping over.

It is not recommended to use chair with wheels in position "C" by people who did not have any amputation. Maneuvering with such chair might be very difficult for them.

**WARNING! The correct position of wheels should be always determined by professional therapist or wheelchair provider.**

It is possible to reach 5 different height adjustments and 3 different horizontal adjustments

#### To adjust the height of the wheel:

Take off the wheel by using quick release button.

Disassemble the black wheel assembly plate by untying 4 bolts. Set the plate in to one of 5 available positions (holes 1&2, 2&3, 3&4, 4&5 or 5&6)

Retie the bolts to secure the plate.

Repeat above on the other side of the chair.

#### To adjust the horizontal position of the wheel (A, B or C)

Take off the wheel by using quick release button.

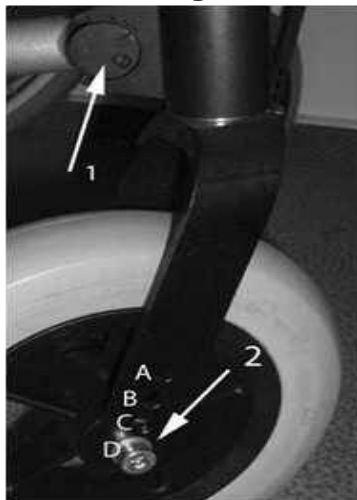
Unscrew the silver wheel socket mounted on black wheel assembly plate

Relocate the socket in to desired hole (A, B or C)

Tie the socket to secure it in position.

Repeat above on the other side of the chair.

## Front, rotating castors with 8" wheels



The standard front wheels are 200x50 mm, made of polyurethane. We recommend to stick to above type of wheels, but it is also possible to use pneumatic tires. It is possible to mount different sizes of front wheels if it is required by rear wheels position (see sheet below).

If the vertical position of rear wheels was modified it is necessary to adjust the front castors position accordingly. The vertical turning axle of the castor should always be in position of 90 (+/- 2°) degrees to the floor. It is possible to adjust it by turning the acentric (1) bolt until the required position is reached.

If the setting range has to be larger it might be necessary to change the wheel position between holes (A, B, C, D) by unscrewing bolt (2) moving the wheel up or down to needed height and tying the bolt (2) back. In some situations it is needed to replace the standard front wheel (8") with the wheel of another size (6" or 7").

The sheet below presents possible options of wheel positions. It gives a clear overview of seat heights, rear wheel positioning holes, correct front wheel position and correct front wheel size

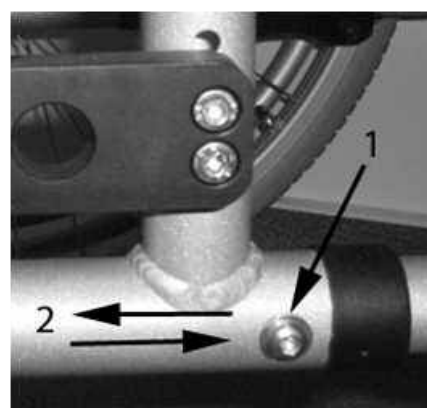
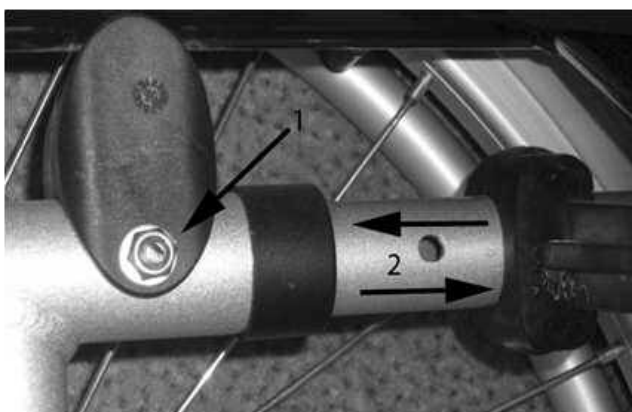
### Correct positions and sizes of wheels depending on required seat height.

Required Seat Height	Mounting position of rear wheel assembly plate (hole numbers)	Front wheel position (hole symbol on front fork)	Correct front wheel size
45 cm	1+2	B	6"
46.3cm	2+3	B	7"
47.7cm	3+4	C	7"
50cm	4+5	C	8"
51.3cm	5+6	D	8"

## Seat depth adjustment

It is also possible on the Dolphin/Barracuda wheelchair to adjust the seat depth to set it for individual users heights and leg lengths.

**WARNING! The correct seat depth should be always determined and set by professional therapist or wheelchair provider.**



### To adjust seat depth:

Unscrew the bolts (1) located on the inside of upper and lower tubes of the side frame.

Slide the front part of the frame (2) forth or back to find the correct seat depth.

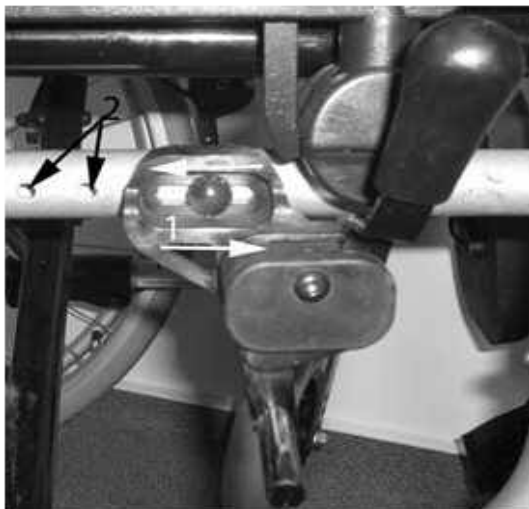
Redo and tie the bolts (1) to secure the frame position.

Repeat the same steps on the second side of the wheelchair.

After readjusting the seat depth it is always necessary to readjust the brake position.

After adjusting the seat depth it is necessary to set the correct cushion length (not shown) by cutting the portion of rear part of the foam (if necessary) and overlapping the upholstery.

## Brake position adjustment



Loosen the bolt (1) and slide the brake back or forth to find the right position

Retie the bolt to secure the brake in required position

If it is necessary to move brake further you should reposition the bolt (1) in to one of adjustment holes (2). Then fine set the brake and tie the bolt.

Repeat the same adjustments on the second brake of the wheelchair.

The correct position of brake is usually achieved when the distance between tire and brake block in "off" position equals to approximately 0,5 cm.

Always check the efficiency of the brakes before using the chair.

## Anti-tipping device

This element increase wheelchair's rear stability and thus safety. It is specially recommended to be used on wheelchairs with center of gravity moved to the rear. It concerns all wheelchairs with reclining back, chairs used by persons after leg(s) amputation and devices with main wheels mounted in front position (A).

**WARNING! The correct assembly of anti-tipping device must be conducted only by professional technician.**



To mount anti-tip device:

insert it in to the lower frame tube hole and secure it's end with bolt (1)

To activate anti-tip:

pull it to the back (2) and turn it around it's axle so the supporting wheel is directed downwards.

Then release the anti-tip (3) for it to lock automatically in position.

To deactivate anti-tip:

pull it to the back (2) and turn it around it's axle so the supporting wheel is directed upwards.

Then release the antitip (3) for it to lock automatically in position.

To adjust the distance between anti-tip wheel and floor:

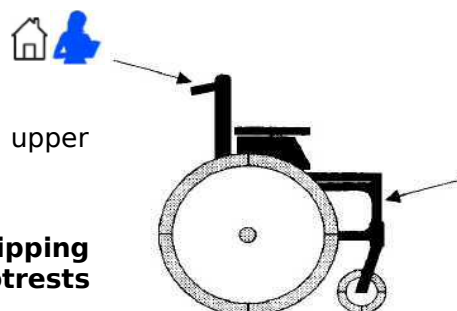
- Unscrew bolt (4)
- adjust the anti-tip height over the floor up or down
- Put back and tie the bolt on desired height
- For anti-tip to work correctly the safe distance between anti-tip and floor should never be more than 4 cm.

## 5. How to use your wheelchair

### How to lift the chair

Lift the wheelchair up using the push handles and the front upper corners of the wheelchair frame, where the footrest is placed.

**WARNING! It is not allowed to lift the wheelchair up by gripping the footrests or armrests! We recommend to detach footrests before lifting the chair.**



## Techniques to get on and off of the wheelchair

Teaching the techniques of transferring the passenger must be hold under the exact supervision of qualified staff. Below we present only our recommendations.



### Transferring the passenger from the wheelchair to the bed

The passenger should face the bed without regard on the fact if the other person helps or not.

Drive the wheelchair as close to the bed as possible and ensure, that front wheels are facing towards.

Pull the brake, lift the armrests / side panels on his side of the wheelchair, on which the transfer to the bed will take place.



### Transferring the passenger from the bed to the wheelchair

The passenger should face the bed without regard on the fact if the other person helps or not.

Drive the wheelchair as close to the bed as possible and ensure, that front wheels are facing towards

Pull the brake, lift the footrests.

Do not climb the footrests, it can cause falling over the wheelchair.

The attendants should use mainly the strength of muscles of legs to draw the wheelchair on stairs avoiding the excessive bending down and impairing the muscles of backs.

## Riding the wheelchair

The correct weight distribution is a basic element of the proper wheelchair usage. The correct wheelchair operation depends not only on the weight but also on the body constitution, position of the person seating on the wheelchair and location of the rear wheels of the chair. The larger weight proportion of the passenger rests on the rear wheels of the chair the easier to drive it. The larger weight proportion of the passenger rests on the front wheels the harder to drive the wheelchair.

Attendants: They should ensure, that the brake is always applied, when they are going away from the wheelchair with the passenger seating on it.

Parking: One ought to ensure, that the front turning wheels are always pointing forwards, when the wheelchair is not in movement, to enlarge their contact with the base.

## How to ride over the kerb?



### Passenger turned with face to the obstacle

(We advise, to use the below mentioned technique only by the experienced wheelchair users.)

Drive the wheelchair as close to the kerb as possible

Incline the wheelchair backwards balancing on the rear wheels and lift the front turning wheels to the height of the kerb. Push the rear wheels forwards and in the same time lean over transferring the weight to the front of the wheelchair.



### Attendant and passenger turned with their faces to the obstacle

The attendant inclines the wheelchair backwards with use of the bar for inclining, so that the front turning wheels appear on the side-walk.

Use the handles at the back of the wheelchair to enter the rear wheels on the side-walk.



### Passenger turned to the obstacle with their backs

(The below mentioned technique will give the results only in case of the very low obstacle and when the height of the footrests is sufficient to not make the obstacle.)

Drive to the obstacle backwards so as the rear wheels will touch it push the rear wheels backwards leaning in the same time forwards.



Attendant and passenger turned to the obstacle with their backs  
Drive to the obstacle backwards so as the rear wheels will touch it  
incline the wheelchair backwards with use of the bar for inclining to come the front turning wheels off the base  
pull the wheelchair on the side-walk with use of the handles, then turn it forwards ensuring, that the front wheels overcame the obstacle

### How to ride down the kerb?

#### Passenger turned ahead to the obstacle's edge

(We advise, to use the below mentioned technique only by the experienced wheelchair users.)

Drive the wheelchair as close as possible to the kerb being the edge of the side-walk.

Balance the wheelchair on the rear wheels allowing the front turning wheels to come off the base as much as it is necessary.

Drive out of the side-walk very slowly and carefully lowering the front turning wheels on the base.



#### Attendant and passenger turned ahead to the obstacle's edge

Incline the wheelchair backwards with use of the incline bar allowing the front turning wheels to come off the base as much as it is necessary.

Drive the wheelchair slowly out of the side-walk and carefully lower the front turning wheels on the base.



#### Passenger turned to the obstacle's edge with back

(We do not recommend to use this technique for driving out of the side-walk higher then 10cm.)

Drive the wheelchair as close as possible to the edge of the side-walk.

Drive out of the side-walk very slowly leaning in the same time forwards.

**WARNING! This operation can be dangerous, it can cause the wheelchair to tip over.**



#### Attendant and passenger turned to the obstacle's edge with back

Drive the wheelchair backwards as close as possible to the edge of the side-walk.

Drive out of the side-walk very slowly and pull the wheelchair on the rear wheels until the front turning wheels go out of the side-walk and lower them on the base.



### Overcoming slopes

Please follow below instructions during overcoming the slopes:

Avoid the direction changes during riding on the slope.

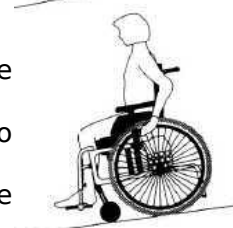
Try to ride along the straight line on the slope. Do not turn sideways.

If necessary do not hesitate to ask for help to avoid an unnecessary risk.

When riding up the slope lean forwards to transfer the centre of gravity to the front and to make the wheelchair more stable.

When riding down the slope lean backwards to transfer the centre of gravity to the back and to make the wheelchair more stable

Control the speed by using the rear wheels' hand-rims and not by applying the brakes.



## Climbing up and down the stairs

**WARNING! Always ask other persons for help.**

**WARNING! Do not ride the wheelchair on escalators either on your own nor with the help of the other person**



### Up the stairs:

#### *One attendant:*

Push the wheelchair to the stairs close enough to touch the first step with the rear wheels.

Use the bar to incline the wheelchair backwards.

Pull the wheelchair slowly up the stairs, step by step, balancing on the rear wheels.

After overcoming the last step pull the wheelchair until the front turning wheels will be situated entirely on the storey and lower them on the base.

#### *Two attendants:*

If there are two attendants, the second one can help pulling the wheelchair by carrying it with motionless footrests. If the footrests are not fitted motionlessly, they ought to be disassembled and the second attendant should carry the wheelchair holding it with the frame.

The attendants should use mainly the strength of muscles of legs to draw the wheelchair on stairs avoiding the excessive bending down and impairing the muscles of backs.



### Down the stairs:

Push the wheelchair to the stairs' edge as close as possible.

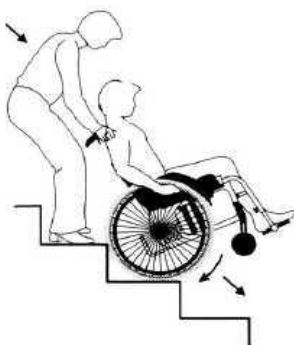
Use the bar to incline the wheelchair backwards.

Pull the wheelchair slowly down the stairs, step by step, on the rear wheels.

After overcoming the last step lower the wheelchair on the all wheels.

If there are two attendants, the second one can help pulling the wheelchair by carrying it with motionless footrests. If the footrests are not fitted motionlessly, they ought to be disassembled and the second attendant should carry the wheelchair holding it with the frame.

The attendants should use mainly the strength of muscles of legs to draw the wheelchair on stairs avoiding the excessive bending down and impairing the muscles of backs.

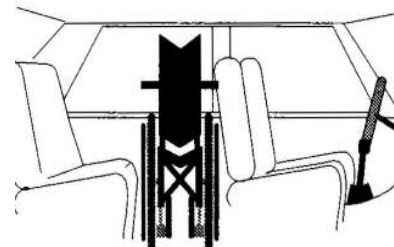


## Transport recommendations

The wheelchair is quite easy to transport. It can be folded and disassembled to reduce its size and weight of single parts. It is possible to detach rear wheels, footrests and fold the chair's cross frame very easily, in the way that was described previously

### Car transport

Fold and place the wheelchair in the car trunk. If, for some reason, it is not possible, put the folded wheelchair between the front and the rear seats inside the car ensuring that the wheelchair is in a sure and stable position. If it is not possible the wheelchair should be fastened with the safety belt.



### Using the wheelchair as a "car seat" in moving vehicles

DOLPHIN wheelchair has successfully passed the crash tests and it conforms to ISO 7276-19:2007 standard. The DOLPHIN wheelchair is allowed to be used as a vehicle seating option in moving vehicles (like f.e. buses, trains, metro etc.) when properly & securely immobilized. It **can be used as a vehicle seat when fitted in the face forward direction only**. Both the user and the device must be correctly immobilized in accordance with relevant European Standards when the wheelchair is used as a seat option in moving vehicles. The function can safely be used only in specially

dedicated and prepared vehicles.

**WARNING! The DOLPHIN wheelchair can't be fitted in the face rearward direction. There is a great risk of serious incident, injuries and property damage if above rules are not followed.**

The wheelchair must be immobilized with special restrains designed for this purpose. 4 restrains must be intertwined over the bottom front and bottom rear corners of the main frame, as shown on below pictures, attached to the vehicle's floor and fully tightened. The spots on the wheelchair's frame where restrains should be conducted (as shown on picture below) are marked with special labels.



The user must be securely seated and immobilized on the wheelchair with special vehicle safety belts.

**WARNING: The typical wheelchair hip belts are not car safety belts and they can't be used as secure user immobilization in moving vehicles. The manufacturer takes no responsibility for incorrect wheelchair's or user's immobilization during vehicle transportation.**

**WARNING! The BARRACUDA wheelchair can't be used as a car seat. During travelling in vehicles seating on the BARRACUDA wheelchair is not allowed. The device should be folded and safely immobilized.**

## 6. Cleaning Frame



The frame ought to be cleaned with use of damp cloth, alternatively with addition of a soft detergent. After that it should be wiped with dry rag. The frame should be regularly controlled, to find on time the damages of varnish, which may cause corrosion. In case of any visible frame damages (cracks, painting defects etc.) ask your local dealer for diagnostics and maintenance.

### Upholstery

The seat and the backrest are made of a very durable strengthened nylon. The seat upholstery can be easily removed by removing the screws placed on the frame tubes. The backrest upholstery can be removed by removing the screws placed on the backrest tubes. The seat and the backrest upholstery can be washed with use of sponge and gentle washing soap.

Normal dirt on metal and plastic parts can be removed with standard cleaning agents and sponge or soft rag. Check the specific product information and use only commercial cleaning products which are suitable for cleaning and disinfection (no solvents or abrasives).

## 7. Maintenance & Service



Despite the solid construction and the use of resistant materials the product is subject to wear. It is therefore recommended to let check the product at regular intervals by a professional service.

For realization of basic service actions the set of socket wrenches, or adjustable spanner, flat and cross screwdriver will be sufficient.

### Parts, which should be regularly inspected:

<u>Part name</u>	<u>Control type</u>	<u>Control frequency</u>
Tires	Tire pressure (2,0-2,2 bar), condition of tread and tires. One should take care, to keep the pressure in both tires on the same level. Harder tires provide better manoeuvrability of the wheelchair and easiness of driving, but they reduce the comfort on bumpy surface.	At least once a week
Spokes	Loose spokes can cause deformation of the rear wheels. Contact your dealer or local bicycle service to manage the problem of loose spokes.	If the problem occurs
Wheel axles	Remove the hair or accumulated dirt	If necessary
Push Rims	Excessively scratched push rims ought to be exchanged because they can wound the user's hands during riding the wheelchair	If necessary
Brakes	The braking force depends on the tyre pressure. The efficiency of brake operation can be also affected with dirt accumulated on tyres. Keep the brakes clean wiping them with a damp cloth to remove dirt, and also lubricating the funnel of screws, on which the brake levers turn.	Control the correctness of brake operation at least once a week
Frame	Keep the wheelchair clean for better comfort of the user.	At least once a month, depending on usage conditions
Turning wheels	The area between the fork and the front wheel should be kept clean, because of dirt accumulating there, which can cause faster wear of turning wheel bearings. To do so, one should disassemble the front wheel by unscrewing it from the fork, remove all dirt, and then preserve the metal elements of the wheel (i.e. technical grease).	The maintenance ought to be made once a month or more often depending on usual surface type & conditions
Detachable elements	Check condition of detachable elements of the wheelchair, if screws are loosen they should be tighten.	In case of intensive exploitation of the wheelchair the inspection should be carry out once a month.
Quick-release axles of the rear wheels	One should clean and then lubricate lightly the quick-release axles of the rear wheels. The slots where the quick-release axles inserted ought to be cleaned up from all dirt with dry cloth. The wheel should be laid on the base, resting on the push rim (never opposite way, because the quick-release axle can catch dirt from surface, which can cause it's seizing in the main axle socket. In case of solid particles occurring on the surface of the quick-release axle, usage of such axle is not allowed.	Lubricating should be carried out periodically.

### Most common problems and solutions

If you notice any irregularities in the wheelchair working you cannot use it. You should contact the local point of sale or service department of the wheelchair supplier. The manufacturer does not guarantee correctness of the wheelchair operation, if the parts applied in it are not original.

<u>Symptoms</u>	<u>Possible cause</u>	<u>What to do?</u>
The wheelchair seems to tilt on one side	<ul style="list-style-type: none"> <li>One of the rear tyres might be inflated more then the other one.</li> </ul>	<ul style="list-style-type: none"> <li>Inflate tires (2,0-2,2 bar).</li> <li>Check position &amp; fastening of the front turning wheels</li> </ul>

	<ul style="list-style-type: none"> <li>The angles of 2 front castors are not adjusted to the same position.</li> </ul>	<ul style="list-style-type: none"> <li>Check displacement of the wheelchair mass</li> </ul>
The wheelchair is hard to push	<ul style="list-style-type: none"> <li>Low air pressure in tires.</li> <li>Wrong angle of front wheels vertical axles.</li> <li>Front wheels axles are dirty.</li> <li>Too large load applied on the front turning wheels.</li> </ul>	<ul style="list-style-type: none"> <li>Inflate tires(2,0-2,2 bar).</li> <li>Check position fastening of the front turning wheels.</li> <li>Remove dirt or entangled hair from the front turning wheels axles.</li> <li>Move the centre of gravity.</li> </ul>
The wheelchair is hard to turn	<ul style="list-style-type: none"> <li>Low air pressure in tires.</li> <li>The front wheels horizontal axles are tied to strong</li> <li>Front wheels axles are dirty.</li> </ul>	<ul style="list-style-type: none"> <li>Inflate tires (2,0-2,2 bar).</li> <li>Check front wheel axles and loosen them if necessary.</li> <li>Remove dirt or entangled hair from the front turning wheels</li> </ul>
Brakes are not working correctly	<ul style="list-style-type: none"> <li>Low air pressure in tires.</li> <li>The position of brakes is adjusted incorrectly.</li> </ul>	<ul style="list-style-type: none"> <li>Inflate tires (2,0-2,2 bar).</li> <li>Adjust the distance between the brake and tires.</li> </ul>
It is hard to fold and unfold the wheelchair	<ul style="list-style-type: none"> <li>The upholstery fitted to tight.</li> <li>The frame cross hinge is dirty.</li> </ul>	<ul style="list-style-type: none"> <li>Loosen screws which hold upholstery and retie them.</li> <li>Clean up and lubricate the cross hinge.</li> </ul>
The wheelchair is not stable	<ul style="list-style-type: none"> <li>Low air pressure in tires.</li> <li>The elements of wheelchair aren't rigid and tight.</li> <li>The wheelchair is incorrectly fitted for the user.</li> </ul>	<ul style="list-style-type: none"> <li>Inflate tires (2,0-2,2 bar).</li> <li>Ensure, that all screws and nuts are tightened.</li> <li>Ensure, the wheelchair is properly adapted for the user. If needed, redjust elements of wheelchair.</li> </ul>
Flat tires	<ul style="list-style-type: none"> <li>Possible puncture of tube &amp; tire</li> <li>Tire and tube are worn down.</li> </ul>	<ul style="list-style-type: none"> <li>Contact your nearest wheelchair dealer or bicycle service to repair or replace broken tubes and tires</li> </ul>

#### **Defects, which detection lies in the user's duty:**

- Bearing slackness in the front and rear wheels, and also in the front forks;
- The tension degree of spokes and alignment of the rear wheels;
- Defects and the wear status of the tires;
- Defects of the turning wheels;
- Mechanical defects and the wear status of the upholstery;
- Defects of brakes;
- Defects of the cross mechanism;
- Defects of the footrests & armrests;
- Defects of the push handles;
- Defects of the quick-release axles of the rear wheels;
- Defects of the anti-tipping protectors;

#### **List of elements provided for an independent easy service**

additional safety belt, armrests, footrests, turning wheels, the seat and backrest upholstery, rear wheels, brakes, push handles, quick-release axles of the rear wheels, anti-tipping protections.

#### **Parts, which can be easily disassembled and sent to a producer's service**

Footrests, turning wheels, seat and backrest upholstery, rear wheels, brakes, armrests, rubber pads of push handles, quick-release axles of the rear wheels, anti-tipping protectors, headrest.

#### **Service actions executed by the authorized producer's service**

**WARNING! attempt of an independent repair of following elements can cause the loss of the guarantee**

Exchange of bearings of the front and rear wheels, exchange and repair of parts of the cross mechanism, repair of component parts of main frame.

### **Authorized services**

For authorized repair you should contact the dealer, where product was purchased or directly manufacturer.

### **The procedure of sending the wheelchair or its parts to the service**

To accomplish the repair of the wheelchair one should contact directly the producer's service or the local seller. The wheelchair or its parts ought to be sent in a package protecting against incidental transportation damages. The best solution is to keep the original packaging. The dispatch ought to be organized through the transporting company indicated by the manufacturer.

### **Storage**

Store device in dry place, where temperature is not freezing. The chair can be folded to reduce space needed for storage. You can also detach some elements to save even more room. Freezing temperatures or humidity may cause damages on tires, fabric, axles, bearings and other elements of the product. To protect tires against deformation during long period of storage you can place wood bricks or other supports under the frame. It is also recommended to cover chair from dust and dirt.

### **List of basic spare parts**

24" main wheels, push rims, bearings of main and turning wheels, rubber pads of push handles, brakes: left and right, pads of armrests, footrests and footplates, structure of armrests, structure of footrests, seat and backrest upholstery, quick-release axles of the rear wheels, anti-tipping protectors, headrests, cushions

### **Disposal & recycling of the product**

The product can not be disposed with household waste but must be brought to the local recycling centre.

## **8. Guarantee terms**

### **Guarantee information**



- The manufacturer covers the product with 24 months guarantee from the purchase date.
- During that period all material or parts defects, caused by manufacturing faults or usage of improper materials will be repaired or replaced free of charge.
- Damages of tires, upholstery and spokes caused by wear in time of exploitation are not covered by the guarantee. The other parts of the wheelchair, which undergo the normal wear during the exploitation are not covered by the guarantee either.
- All mechanical defects and damages caused by improper use or usage not intended by manufacturer are not covered by the guarantee.
- Not authorized changes and modifications of the wheelchair will cause the loss of the guarantee.
- If any defects or damages occur, one should immediately inform the supplier about that fact.

### **Range of responsibility**

- The guarantee does not cover transport cost.
- The guarantee does not cover injury or other damages eventually related to a malfunction of this product.
- The guarantee does not cover the loss, which rise in consequence of impossibility of using of the product, when faults are being removed.
- The manufacturer does not bear the responsibility for damages caused as the result of an inappropriate or incorrect understanding of this user's manual.

### **Wheelchair modifications & additionally installed elements**

This definition refers to any wheelchair, which was modified and which differs from details given in this manual or if additional elements, not supplied by the manufacturer, are fixed on the product. If the device was modified in above way by the user without manufacturer's written authorization, it is no more compliant with the CE essential requirements and it is not covered by the guarantee.

If you have any questions or doubts in the matter of modifications, please contact the Manufacturer

before you will take any action.



## 9. Declaration of Conformity (CE declaration)

The company Mobilex A/S, Grønlandsvej, 58660 Skanderborg, Denmark declares that the medical devices:

### **“Dolphin / Barracuda” Manual Light Weight Wheelchairs**

are designed and produced in accordance with the technical documentation which fully conforms to the following essential requirements:

- **EU Council Directive 93/42/EEC for medical equipment  
Annex I of the June 14, 1993**

During design, testing and production procedures following harmonized standards were used:  
EN 12182; PN-EN 12183; PN-ISO 7176-1,3,5,7,8,15,19; PN-EN 1021-1

Lars Nygaard  
Managing Director  
Mobilex A/S



Skanderborg, the 2011-09-06

.....  
*signature*

## 10. Technical data



**Available wheelchair sizes (seat widths):** 14" - 36 cm; 16" - 40 cm; 18" - 45 cm; 20" - 50 cm

**Available wheelchair colours:** Silver metallic

Specification Chart	Dolphin	Barracuda
Max weight of a user (kg)	150	120
Total length with footrests (cm)	104-110	99,5-105,5
Total width (depending on chosen) seat width (cm)	54,6; 58,6; 63,6; 68,6	54,6; 58,6; 63,6; 68,6
Length of folded device (without footrests) (cm)	76	76
Height of folded device (adjustable push handles) (cm)	97-106	97-106
Width of folded device (cm)	30,5	30,5
Total weight (kg)	17,7	23,1
Weight of the heaviest element (kg)	11kg	14,2
Weight of elements which can be detached for transport (kg)	Legrests (fixed)- 2x1 kg Rear wheels- 2x2 kg Cushion- 0,7 kg	Legrests (elev.)- 2x2,1 kg Rear wheels- 2x2 kg Cushion- 0,7 kg
Static stability down the slope (°)	15,5	15
Static stability up the slope (°)	9,5-16,5	10,0-17,0
Side static stability (°)	16	16
Seat surface angle (°)	8,7	8,7
Effective seat depth (cm)	50,5	51
Effective seat width (cm)	36, 40, 45, 50	36, 40, 45, 50
Seat height from front edge to floor (cm)	56	56
Backrest angle (°)	12	12,5; 25; 35,5 (adjustable)
Backrest height (cm)	38	38
Distance between seat and footplate (cm)	35-51 (fixed footrests)	36,5-52 (elev. footrests)
Angle between seat and legs (legrest angle) (°)	107,5 (fixed)	87,5-182 (adjustable)
Height of armrest (cm)	17,5 - 26	17,5 - 26
Distance between front of armrest and the backrest (cm)	26	26
Rear main wheels diameter (inch.)	24 x 1 3/8	24 x 1 3/8
Displacement of horizontal wheel axles (cm)	5	5
Turning radius (cm)	75	69
Front wheels diameter (cm)	20x5	20x5